

図 1

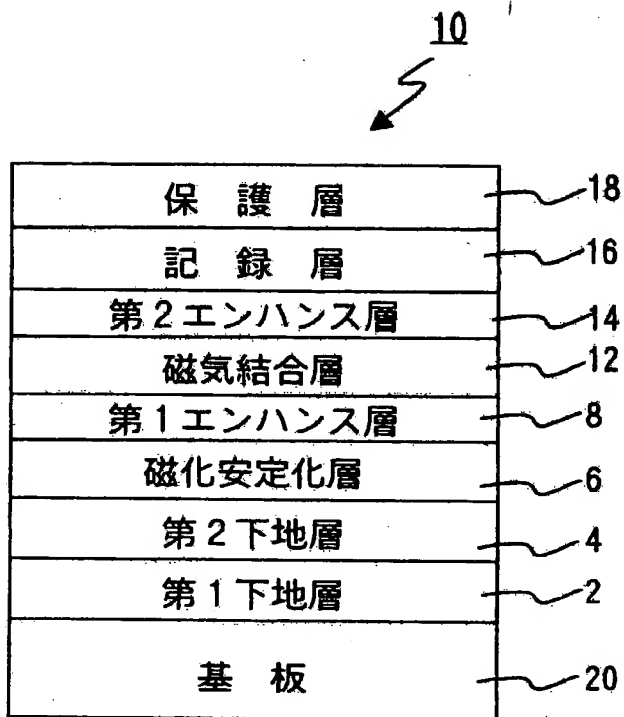


図 2

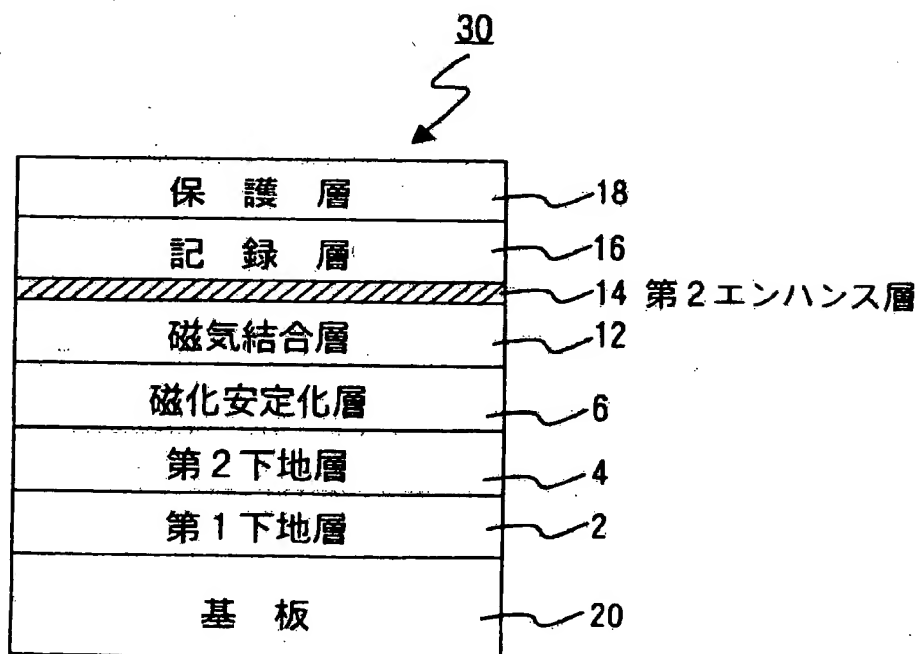


図 3

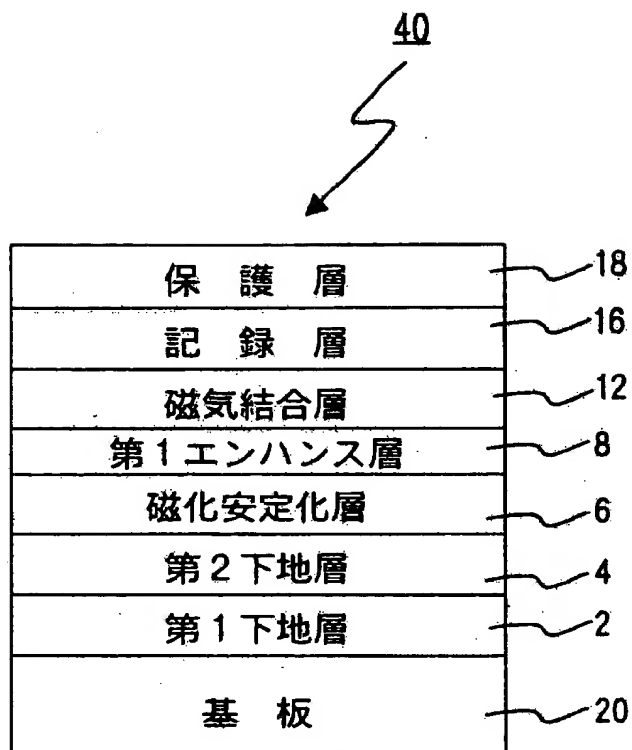


図 4

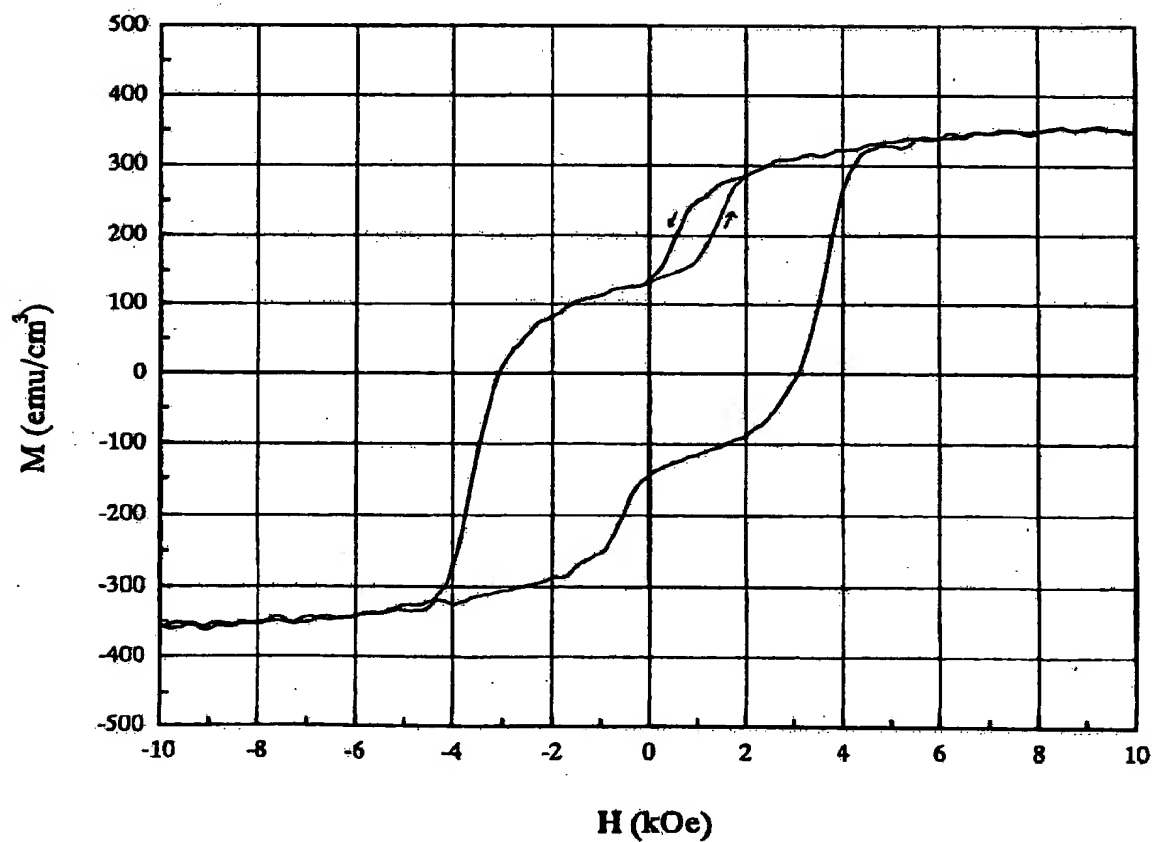
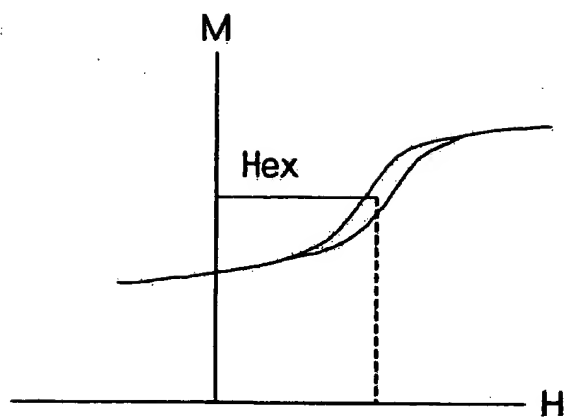


图 5

(A)



(B)

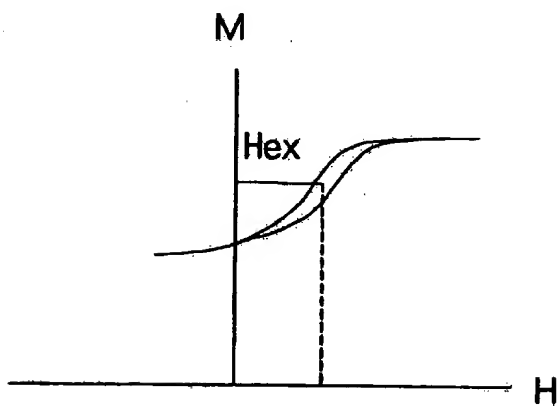


図 6

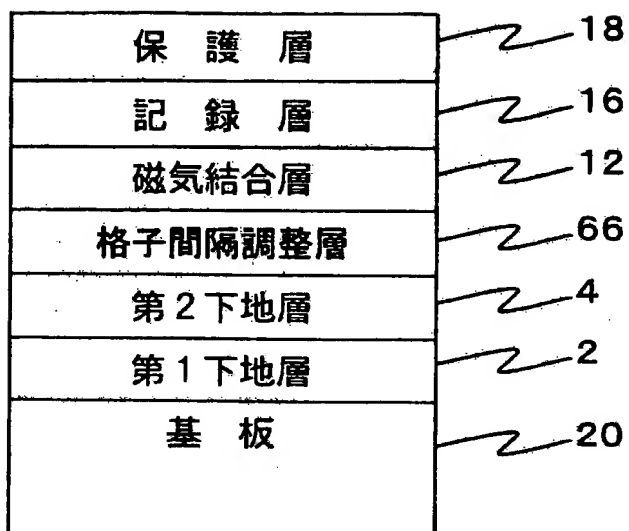


図 7

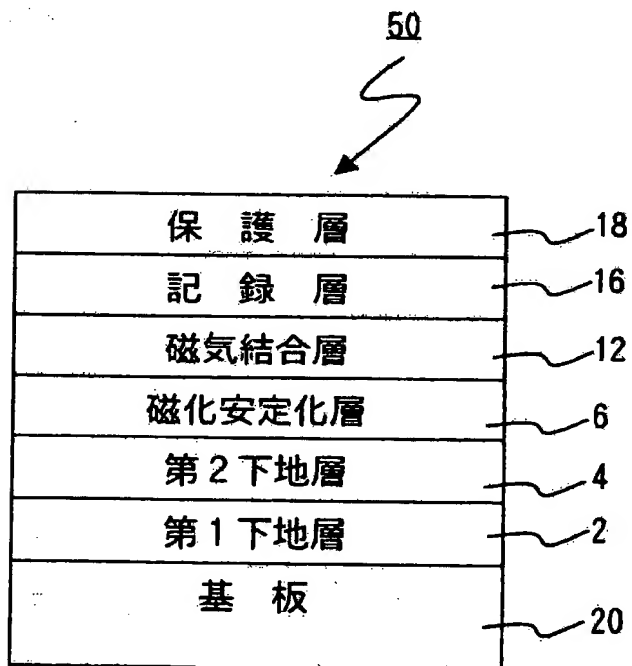


図 8

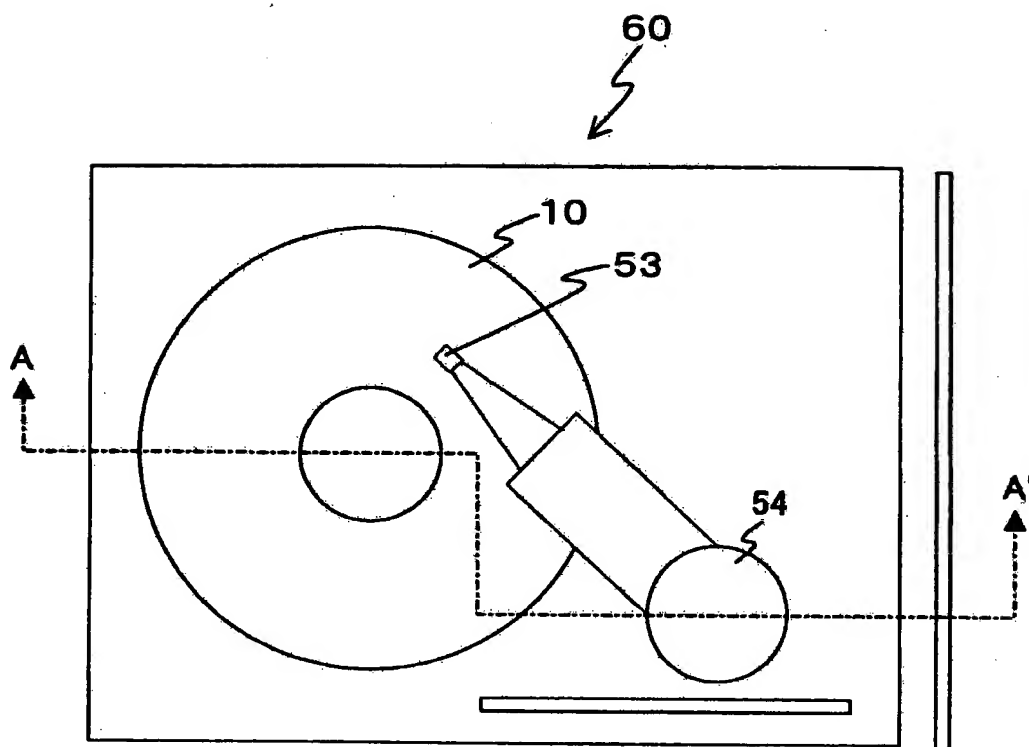


図 9

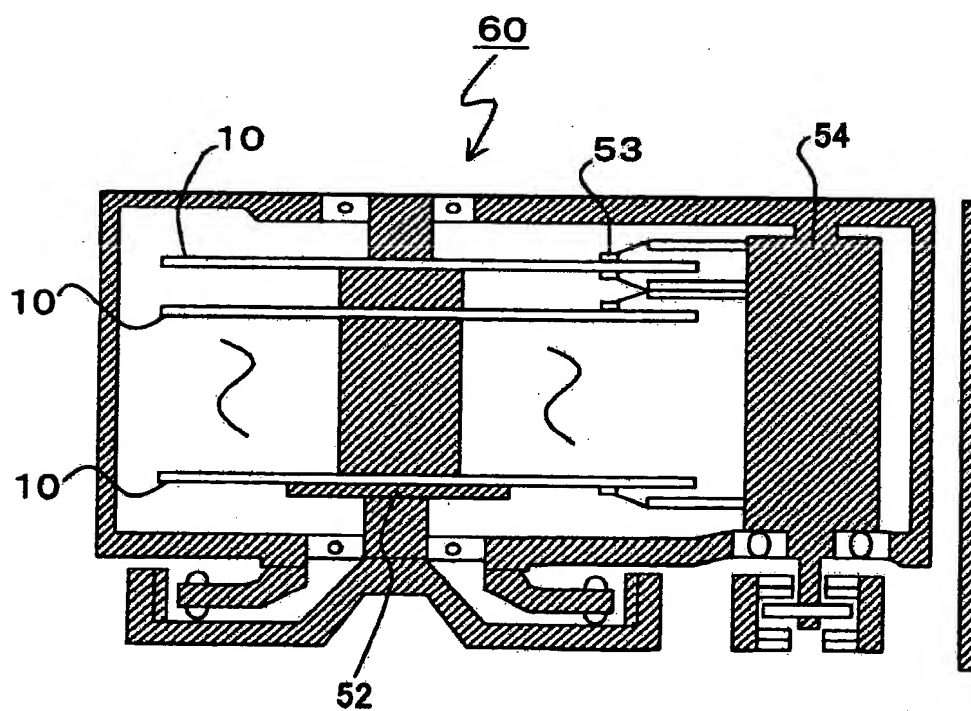
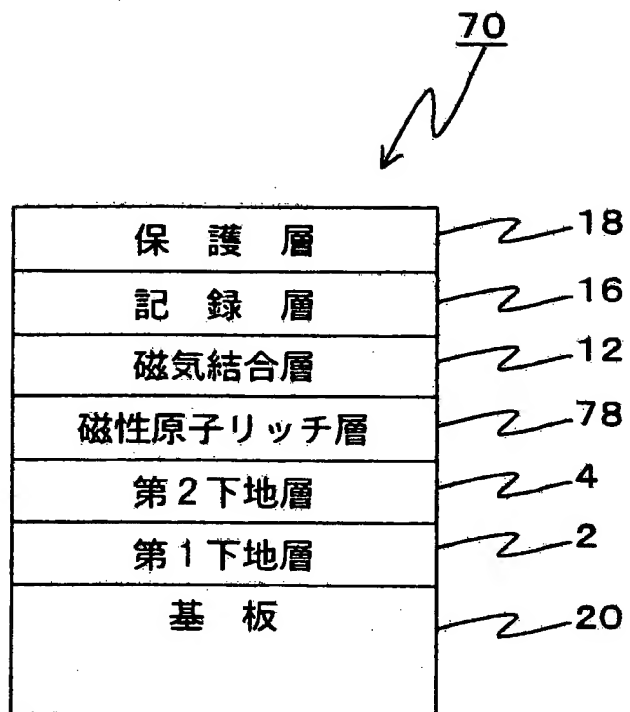


図 10



$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

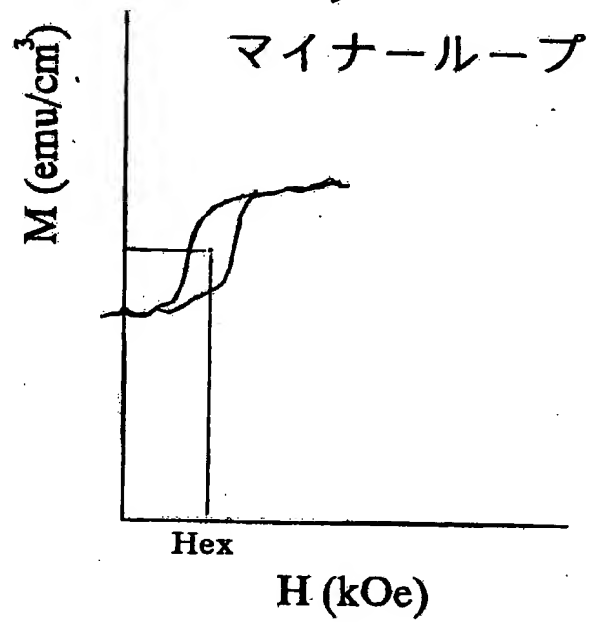


図 1 2

保 護 層	18
記 録 層	16
エンハンス層	79
磁気結合層	12
磁性原子リッチ層	78
第2下地層	3
第1下地層	2
基 板	20

図 1 3

保 護 層	18
記 録 層	16
エンハンス層	79
磁気結合層	12
磁性原子リッチ層	78
第2磁気結合層	82
磁化安定化層	86
第2下地層	3
第1下地層	2
基 板	20



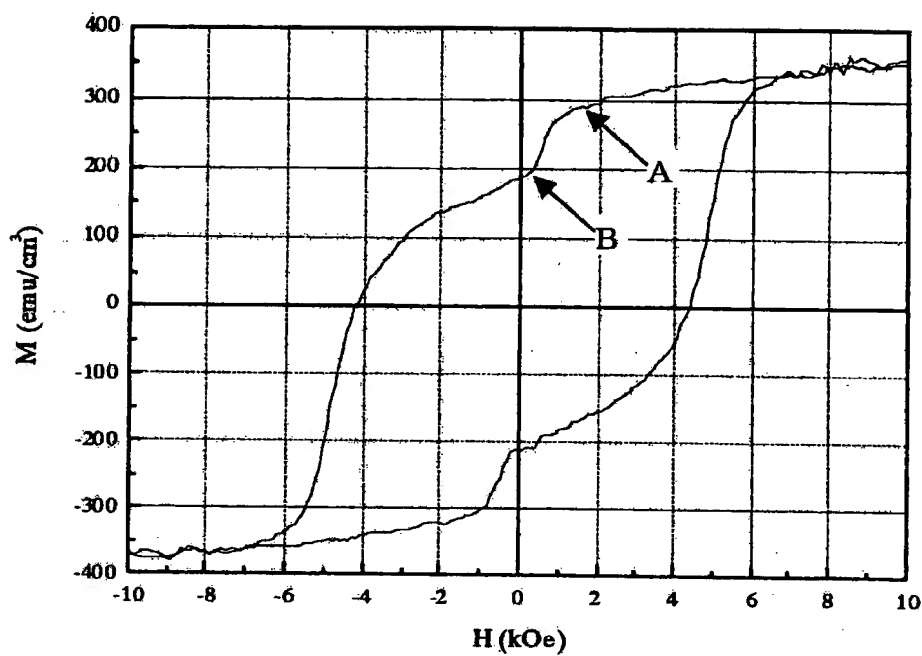
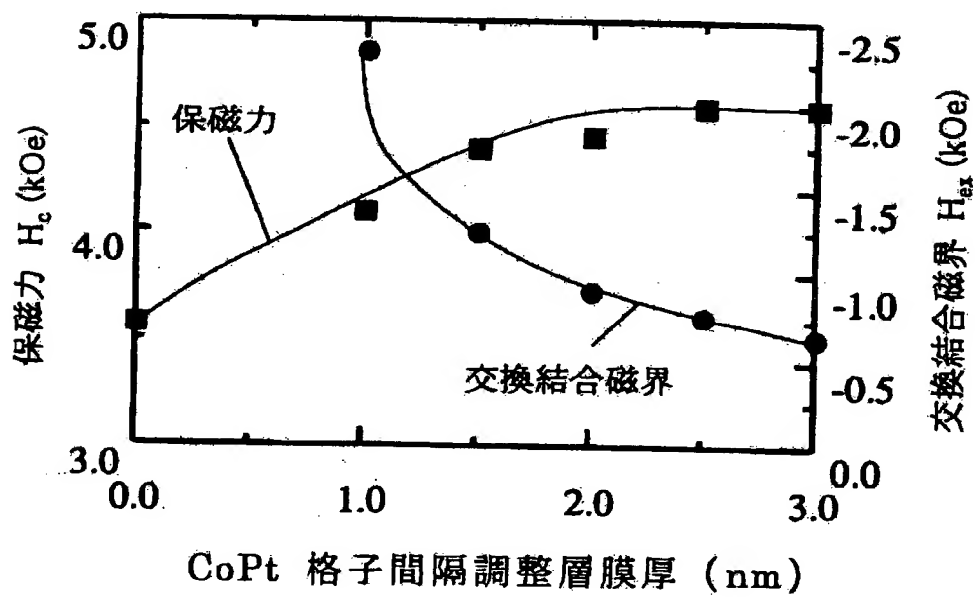
[illegible]

図 15



1. *Chlorophyll a* (Chl *a*)  
 2. *Chlorophyll b* (Chl *b*)  
 3. *Chlorophyll c* (Chl *c*)  
 4. *Chlorophyll d* (Chl *d*)  
 5. *Chlorophyll e* (Chl *e*)  
 6. *Chlorophyll f* (Chl *f*)  
 7. *Chlorophyll g* (Chl *g*)  
 8. *Chlorophyll h* (Chl *h*)  
 9. *Chlorophyll i* (Chl *i*)  
 10. *Chlorophyll j* (Chl *j*)  
 11. *Chlorophyll k* (Chl *k*)  
 12. *Chlorophyll l* (Chl *l*)  
 13. *Chlorophyll m* (Chl *m*)  
 14. *Chlorophyll n* (Chl *n*)  
 15. *Chlorophyll o* (Chl *o*)  
 16. *Chlorophyll p* (Chl *p*)  
 17. *Chlorophyll q* (Chl *q*)  
 18. *Chlorophyll r* (Chl *r*)  
 19. *Chlorophyll s* (Chl *s*)  
 20. *Chlorophyll t* (Chl *t*)  
 21. *Chlorophyll u* (Chl *u*)  
 22. *Chlorophyll v* (Chl *v*)  
 23. *Chlorophyll w* (Chl *w*)  
 24. *Chlorophyll x* (Chl *x*)  
 25. *Chlorophyll y* (Chl *y*)  
 26. *Chlorophyll z* (Chl *z*)  
 27. *Chlorophyll aa* (Chl *aa*)  
 28. *Chlorophyll ab* (Chl *ab*)  
 29. *Chlorophyll ac* (Chl *ac*)  
 30. *Chlorophyll ad* (Chl *ad*)  
 31. *Chlorophyll ae* (Chl *ae*)  
 32. *Chlorophyll af* (Chl *af*)  
 33. *Chlorophyll ag* (Chl *ag*)  
 34. *Chlorophyll ah* (Chl *ah*)  
 35. *Chlorophyll ai* (Chl *ai*)  
 36. *Chlorophyll aj* (Chl *aj*)  
 37. *Chlorophyll ak* (Chl *ak*)  
 38. *Chlorophyll al* (Chl *al*)  
 39. *Chlorophyll am* (Chl *am*)  
 40. *Chlorophyll an* (Chl *an*)  
 41. *Chlorophyll ao* (Chl *ao*)  
 42. *Chlorophyll ap* (Chl *ap*)  
 43. *Chlorophyll aq* (Chl *aq*)  
 44. *Chlorophyll ar* (Chl *ar*)  
 45. *Chlorophyll as* (Chl *as*)  
 46. *Chlorophyll at* (Chl *at*)  
 47. *Chlorophyll au* (Chl *au*)  
 48. *Chlorophyll av* (Chl *av*)  
 49. *Chlorophyll aw* (Chl *aw*)  
 50. *Chlorophyll ax* (Chl *ax*)  
 51. *Chlorophyll ay* (Chl *ay*)  
 52. *Chlorophyll az* (Chl *az*)  
 53. *Chlorophyll aza* (Chl *aza*)  
 54. *Chlorophyll abz* (Chl *abz*)  
 55. *Chlorophyll acz* (Chl *acz*)  
 56. *Chlorophyll adz* (Chl *adz*)  
 57. *Chlorophyll aez* (Chl *aez*)  
 58. *Chlorophyll afz* (Chl *afz*)  
 59. *Chlorophyll agz* (Chl *agz*)  
 60. *Chlorophyll ahz* (Chl *ahz*)  
 61. *Chlorophyll aiz* (Chl *aiz*)  
 62. *Chlorophyll ajz* (Chl *ajz*)  
 63. *Chlorophyll akz* (Chl *akz*)  
 64. *Chlorophyll alz* (Chl *alz*)  
 65. *Chlorophyll amz* (Chl *amz*)  
 66. *Chlorophyll anz* (Chl *anz*)  
 67. *Chlorophyll aoz* (Chl *aoz*)  
 68. *Chlorophyll apz* (Chl *apz*)  
 69. *Chlorophyll aqz* (Chl *aqz*)  
 70. *Chlorophyll arz* (Chl *arz*)  
 71. *Chlorophyll asz* (Chl *asz*)  
 72. *Chlorophyll atz* (Chl *atz*)  
 73. *Chlorophyll auz* (Chl *auz*)  
 74. *Chlorophyll avz* (Chl *avz*)  
 75. *Chlorophyll awz* (Chl *awz*)  
 76. *Chlorophyll axz* (Chl *axz*)  
 77. *Chlorophyll ayz* (Chl *ayz*)  
 78. *Chlorophyll ayz* (Chl *ayz*)  
 79. *Chlorophyll azz* (Chl *azz*)  
 80. *Chlorophyll azaa* (Chl *aza*)  
 81. *Chlorophyll abz* (Chl *abz*)  
 82. *Chlorophyll acz* (Chl *acz*)  
 83. *Chlorophyll adz* (Chl *adz*)  
 84. *Chlorophyll aez* (Chl *aez*)  
 85. *Chlorophyll afz* (Chl *afz*)  
 86. *Chlorophyll agz* (Chl *agz*)  
 87. *Chlorophyll ahz* (Chl *ahz*)  
 88. *Chlorophyll aiz* (Chl *aiz*)  
 89. *Chlorophyll ajz* (Chl *ajz*)  
 90. *Chlorophyll akz* (Chl *akz*)  
 91. *Chlorophyll alz* (Chl *alz*)  
 92. *Chlorophyll amz* (Chl *amz*)  
 93. *Chlorophyll anz* (Chl *anz*)  
 94. *Chlorophyll aoz* (Chl *aoz*)  
 95. *Chlorophyll apz* (Chl *apz*)  
 96. *Chlorophyll aqz* (Chl *aqz*)  
 97. *Chlorophyll arz* (Chl *arz*)  
 98. *Chlorophyll asz* (Chl *asz*)  
 99. *Chlorophyll atz* (Chl *atz*)  
 100. *Chlorophyll auz* (Chl *auz*)  
 101. *Chlorophyll avz* (Chl *avz*)  
 102. *Chlorophyll awz* (Chl *awz*)  
 103. *Chlorophyll axz* (Chl *axz*)  
 104. *Chlorophyll ayz* (Chl *ayz*)  
 105. *Chlorophyll ayz* (Chl *ayz*)  
 106. *Chlorophyll azz* (Chl *azz*)  
 107. *Chlorophyll azaa* (Chl *aza*)  
 108. *Chlorophyll abz* (Chl *abz*)  
 109. *Chlorophyll acz* (Chl *acz*)  
 110. *Chlorophyll adz* (Chl *adz*)  
 111. *Chlorophyll aez* (Chl *aez*)  
 112. *Chlorophyll afz* (Chl *afz*)  
 113. *Chlorophyll agz* (Chl *agz*)  
 114. *Chlorophyll ahz* (Chl *ahz*)  
 115. *Chlorophyll aiz* (Chl *aiz*)  
 116. *Chlorophyll ajz* (Chl *ajz*)  
 117. *Chlorophyll akz* (Chl *akz*)  
 118. *Chlorophyll alz* (Chl *alz*)  
 119. *Chlorophyll amz* (Chl *amz*)  
 120. *Chlorophyll anz* (Chl *anz*)  
 121. *Chlorophyll aoz* (Chl *aoz*)  
 122. *Chlorophyll apz* (Chl *apz*)  
 123. *Chlorophyll aqz* (Chl *aqz*)  
 124. *Chlorophyll arz* (Chl *arz*)  
 125. *Chlorophyll asz* (Chl *asz*)  
 126. *Chlorophyll atz* (Chl *atz*)  
 127. *Chlorophyll auz* (Chl *auz*)  
 128. *Chlorophyll avz* (Chl *avz*)  
 129. *Chlorophyll awz* (Chl *awz*)  
 130. *Chlorophyll axz* (Chl *axz*)  
 131. *Chlorophyll ayz* (Chl *ayz*)  
 132. *Chlorophyll ayz* (Chl *ayz*)  
 133.

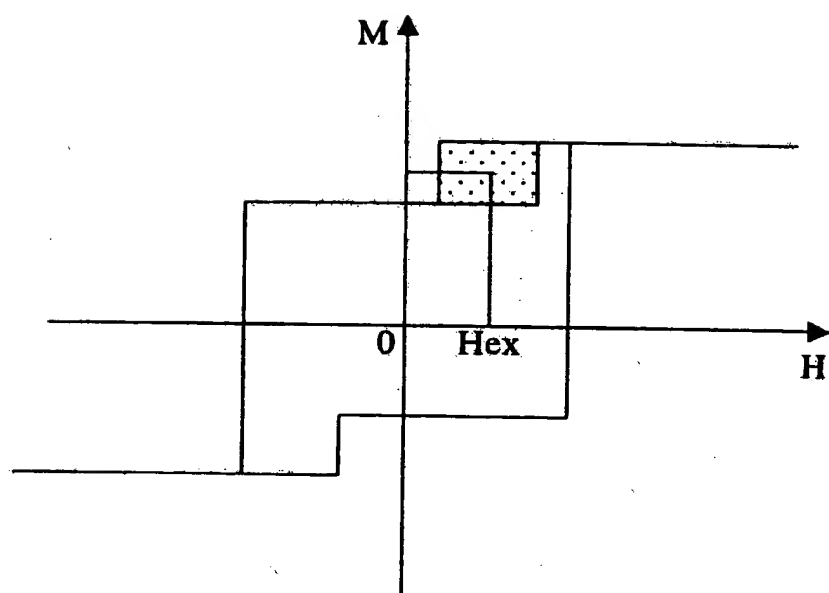


図 17

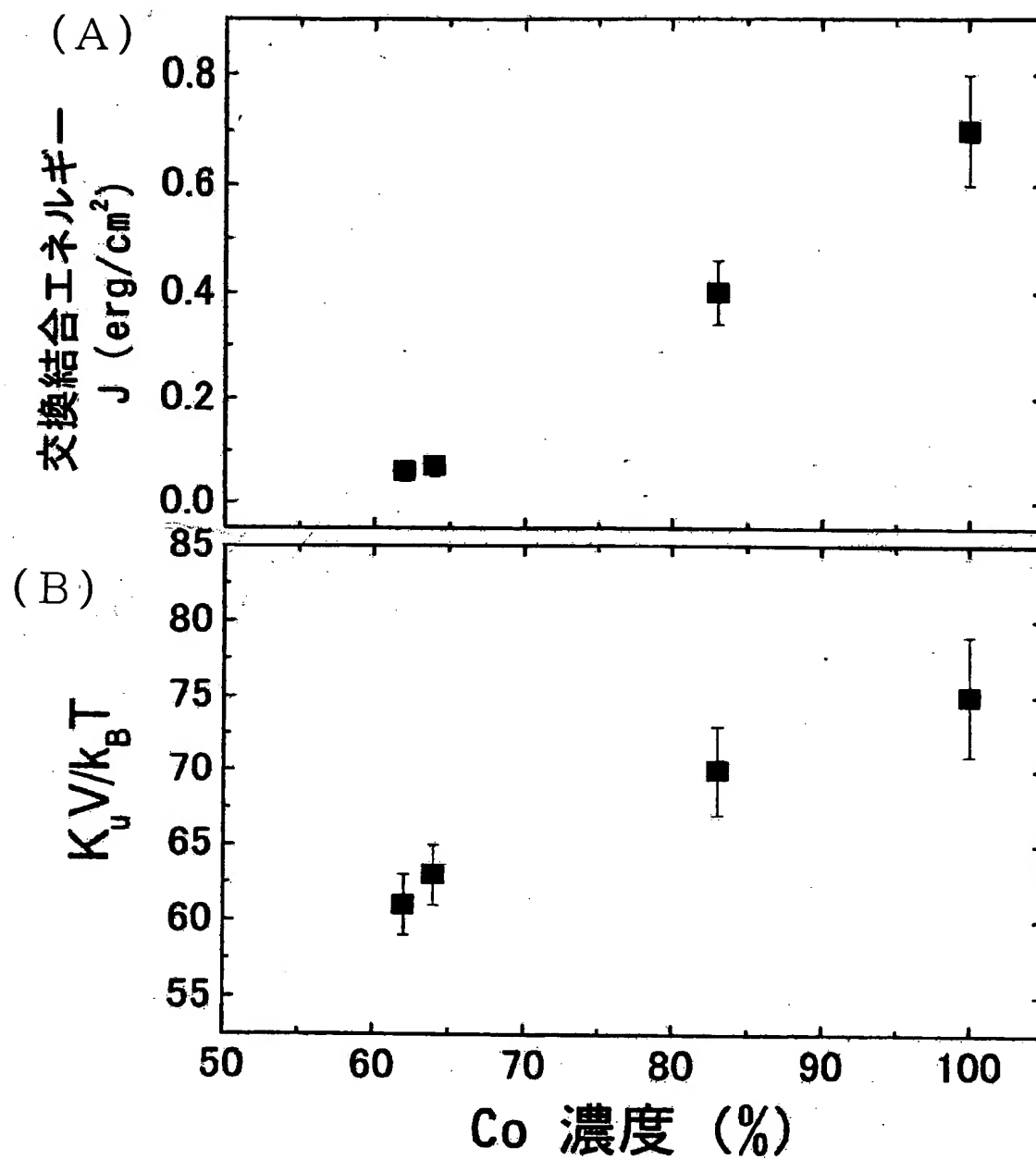


図 18

保 護 層
磁気記録層
磁気結合層 (Ru)
磁化安定化層
下 地 層
基 板

090404 090404 090404